

IN THE CLAIMS

1. (Original) A method for supporting a plurality of communication rates with a base station that uses a plurality of communication channels comprising:

processing a first communication for transmission;

continually determining the data rate required to support said first communication;

allocating, responsive to said determining step, a sufficient number of communication channels for transmission at said data rate whereby; a re-allocation of communication channels is performed should said required data rate change.

2. (Original) The method of claim 1 wherein said allocating step allocates D channels at a first data rate and B channels at a second data rate, which is greater than said first data rate.

3. (New) A method for supporting a plurality of communication rates in a wireless communication system comprising a base station and a subscriber unit, the method comprising:

establishing an initial communication link between the base station and the subscriber unit;

transmitting a request for communication by the subscriber unit to the base station;

determining a required communication rate for the requested communication; and,

allocating a wireless channel sufficient for supporting the requested communication.

4. (New) The method of claim 3 wherein the requested communication is requested through plain old telephony service (POTS), integrated services digital network (ISDN) service, variable bit rate (VBR) data service, wideband service, leased line service, or packet data service.

5. (New) The method of claim 4 wherein the communication is requested through ISDN and the required communication rate is determined by a message transmitted to the subscriber unit through a D channel of ISDN.

6. (New) The method of claim 5 wherein the number of wireless channels is determined based on the number of requested B channels and D channels of ISDN.

7. (New) The method of claim 3 wherein the step of allocating a wireless channel comprises selecting sufficient number of codes for code division multiple access (CDMA) system for the subscriber unit.

8. (New) The method of claim 7 wherein the codes are generated by the base station using an assigned primary seed.

9. (New) The method of claim 8 wherein at least one secondary assigned seed generated from the assigned primary seed is assigned to the subscriber unit.

10. (New) The method of claim 3 further comprises the steps of:
monitoring change of the required communication rate; and,
adjusting channel allocation based on the change.
11. (New) The method of claim 10 wherein the change of the
required communication rate is monitored with a message transmitted through a D
channel of ISDN.
12. (New) A system for supporting a plurality of communication
rates in a wireless communication system, the system comprising:
a subscriber unit having means for establishing a communication link to
support a requested communication; and,
a base station having means for determining a required communication rate
for the requested communication, and means for allocating a wireless channel
sufficient for supporting the requested communication.
13. (New) The system of claim 12 wherein the requested
communication is requested through plain old telephony service (POTS), integrated
services digital network (ISDN) service, variable bit rate (VBR) data service,
wideband service, leased line service, or packet data service.
14. (New) The system of claim 13 wherein in the case that the
requested communication is requested through ISDN, the required communication
rate is determined by a message transmitted to the subscriber unit through a D
channel of ISDN.

15. (New) The system of claim 14 wherein the base station allocates a wireless channel sufficient to support the requested B channels and D channels of ISDN.

16. (New) The system of claim 12 wherein the base station selects a sufficient number of codes for a code division multiple access (CDMA) system for the subscriber unit.

17. (New) The system of claim 16 wherein the base station further comprises means for generating codes using an assigned primary seed.

18. (New) The system of claim 17 wherein the base station assigns at least one secondary assigned seed generated from the assigned primary seed to the subscriber unit.

19. (New) The system of claim 12 wherein the base station further comprises:

means for monitoring change in the required communication rate; and,
means for adjusting channel allocation based on the change.

20. (New) The system of claim 19 wherein the base station monitors change in the required communication rate with a message transmitted through a D channel of ISDN.